

Radio

AMATEUR

Call Book Magazine

\$1.25

Foreign
\$1.35



1938

SPRING, 1938

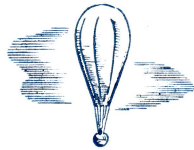
"when it's tough going" the world looks to **CORNELL-DUBILIER**



MacGregor Arctic Expedition is dependent on radio for communication. A. G. Sayre, radio operator, says his C-D capacitors work F.B. never trouble him.



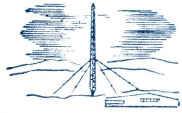
Beneath 1,600 feet of rock, in a copper mine, scientists trapped rays of the light-swift "neutrino." C-D capacitors were used in the electrical apparatus.



In their quest for cosmic-rays, scientists soared into the stratosphere. C-D capacitors played an important part in the success of this expedition.



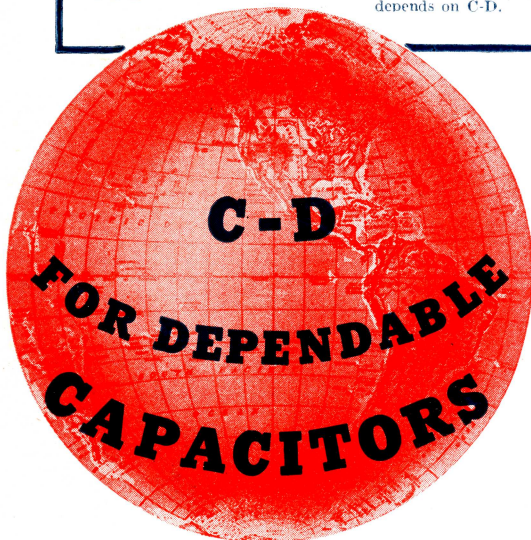
Hermetically sealed C-D capacitors are impervious to heat and humidity conditions. Engineers at lonely tropical outposts, insist on C-D's.



U. S. Air Corps and other government divisions, as well as the majority of the leading broadcast stations use C-D capacitors. WLW, "The Nation's Station," depends on C-D.



Dick Merrill's "Lady Peace," veteran trans-atlantic airship boasts C-D capacitors in its radio compass. For unfailing operation. C-D's can't be beat.



For 28 years, Cornell-Dubilier has specialized in the manufacture of capacitors—exclusively. The result of that specialization has been the development of the world's finest and most complete line of capacitors. For uninterrupted continuous operation, standardize on C-D's.

Send for 1938 catalog No. 161 today.
Cable Address "Cordu."



TYPE 86

Hermetically sealed mica capacitors encased in glazed, non-hygroscopic ceramic containers. Available in a complete capacity range from .0001 to 12,500 volts. The original high quality high voltage mica transmitting capacitor.



TYPE TJ-U

Impregnated and filled with non-inflammable DYKANOL. Universal mounting bracket permits either upright or inverted mounting. Don't confuse with ordinary mineral or castor oil, funny-name condensers!

Insist on C-D DYKANOL, the diphenol-chloride Hi-K dielectric impregnant.



TYPE TL

Hermetically sealed in aluminum containers. Impregnated and filled with DYKANOL. Can be mounted either upright or inverted. Designed for hi-power amplifiers, power supplies, etc.

**MICA • DYKANOL • PAPER
WET & DRY ELECTROLYTICS**

World's Oldest and Largest Manufacturer of Capacitors Exclusively



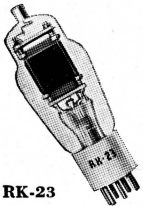
CORNELL-DUBILIER ELECTRIC CORPORATION

1003 Hamilton Boulevard, South Plainfield, New Jersey

MORE DX FROM YOUR PRESENT RIG

HIGHEST EFFICIENCY FROM YOUR NEW ONE

RAYTHEON
RK
AMATEUR TUBES



RK-23

SUPPRESSOR MODULATORS

	OUTPUT	PRICE
RK-25B,	24 Watts	\$ 3.50
RK-23,	24 Watts	4.50
RK-20A,	80 Watts	15.00
RK-25,	24 Watts	4.50
RK-28,	200 Watts	34.50

Here is phone modulation at low cost! Suppressor modulation permits high quality phone transmission with a smaller number of tubes, plus savings in other equipment, and power costs. The slightly higher price of these tubes is more than offset by the resultant savings on the over-all cost of your transmitter. In addition, RAYTHEON gives you all those features that make RK tubes so popular with amateurs everywhere.

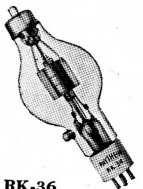


RK-11

LOW COST TRIODES

	OUTPUT	PRICE
RK-11,	55 Watts	\$2.50
RK-12,	55 Watts	2.50
RK-51,	170 Watts	8.00
RK-52,	135 Watts	8.00

Here are greater outputs for a given amount of drive, than any tubes in this class. In addition to 20% more power, and longer life, these tubes are purposely built to withstand heavy momentary overloads. For use as Power Amplifiers, Oscillators, or Frequency Multipliers. Carbon plates, Hard Glass Bulbs, Isolantite Bases, Thoriated tungsten filaments—all contribute to the better performance of RK tubes.



RK-36

HIGH FREQUENCY TRIODES

	OUTPUT	PRICE
RK-35 low mu	75 Watts	\$ 8.00
RK-37 high mu	80 Watts	7.75
RK-36 low mu	200 Watts	14.5
RK-38 high mu	225 Watts	13.50

Here is top notch performance for the high frequency bands. RAYTHEON construction permits high surges without danger of gassing—even though plates show color. The plate is brought out at the top of the bulb, and the grid at the side to minimize leakage and to produce lowest inter-electrode capacities.

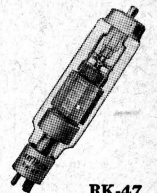
THE amateur really gets a break here at RAYTHEON. Being hams ourselves, we're always busy finding out what kind of tube would help amateurs most. *Then we build that tube!* It might be a new tube, or an improvement in the length of life, output, or utility of an existing type. This amateur spirit made RAYTHEON responsible for the first strictly amateur tube . . . the first amateur pentode . . . the first zero bias Class B Modulator . . . and the first Beam Power tubes.

And remember, RAYTHEON is the world's largest exclusive manufacturer of radio tubes! That's all we make, and we make them good. No expense or effort is too great, so long as RAYTHEON tubes give greater outputs for the longest periods of time. Yet, RK tubes cost you no more. You'll be way ahead every time you buy a radio tube if you remember to say "RAYTHEON" to your parts jobber.

BEAM POWER TUBES

	OUTPUT	DRIVING POWER	PRICE
RK-49	25 Watts	0.2 Watts	\$ 2.10
RK-39	35 Watts	0.26 Watts	3.50
RK-47	120 Watts	1.0 Watts	17.50
RK-48	250 Watts	1.2 Watts	27.50

By focusing electrons directly on the plate, thereby minimizing power losses in the screen, RAYTHEON gives you ultra-high efficiency with low driving power. In addition, low inter-electrode capacities eliminate the need of neutralization. Hard glass (Nonex) bulbs, "moly" plates, ceramic insulation throughout—all contribute to the higher power and longer life of RK tubes. Pioneering this tube has evolved exclusive RAYTHEON features that safeguard your investment.



RK-47

LOW COST RECTIFIER

The 866 as RAYTHEON Builds It!

One dollar and fifty cents never bought so much in a radio tube. Regardless of the price, our engineers had to build real performance into this 866—because it carries the name RAYTHEON. Save with safety. Ask your dealer for RAYTHEONS. They cost no more, but they're worth a lot more to you.



RK-866

SEE YOUR RAYTHEON JOBBER OR WRITE DIRECT FOR DETAILED CHARACTERISTICS ON THESE AND OTHER RK TUBES

RAYTHEON
PRODUCTION CORP.

445 Lake Shore Drive
Chicago, Illinois
555 Howard Street, San Francisco, Cal.

420 Lexington Ave., New York, N. Y.
55 Chapel Street, Newton, Mass.
415 Peachtree Street, N. E., Atlanta, Ga.

"WORLD'S LARGEST EXCLUSIVE TUBE MANUFACTURER"

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

RADIO AMATEUR CALL BOOK MAGAZINE

(Registered at U. S. Patent Office)

Vol. 19

March, 1938

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W9OKZ—HAROLD A. RENSCH, Editor
HERBERT F. GRIEM
D. M. AHBE
M. M. HOMANCleveland Office
J. C. MUNN
10515 Wilbur Ave., Cleveland, Ohio
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W6AM—DON C. WALLACE
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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine



LOOK AT THE

New RCA 809!

Look at the Construction

Husky electrodes, ruggedly supported in a large envelope assuring maximum heat radiation. Ceramic base and plate lead out of the top for maximum insulation. Large plate cap for easy and low-loss connections.

Look at the Ratings

CLASS C TELEGRAPHY			
D-C Plate Voltage	. . . . .	750	maximum volts
D-C Plate Current	. . . . .	100	maximum milliamperes
Plate Input	. . . . .	75	maximum watts
Plate Dissipation	. . . . .	25	maximum watts

Full Input to 60 megacycles

Filament Voltage	. . . . .	6.3 volts
Filament Current	. . . . .	2.5 amperes
Amplification Factor	. . . . .	50

Look at the Performance

New design provides high efficiency and low driving power at moderate plate voltages. High- μ grid means low bias requirements. Heavy duty filament and large electrodes provide for safe, conservative ratings.

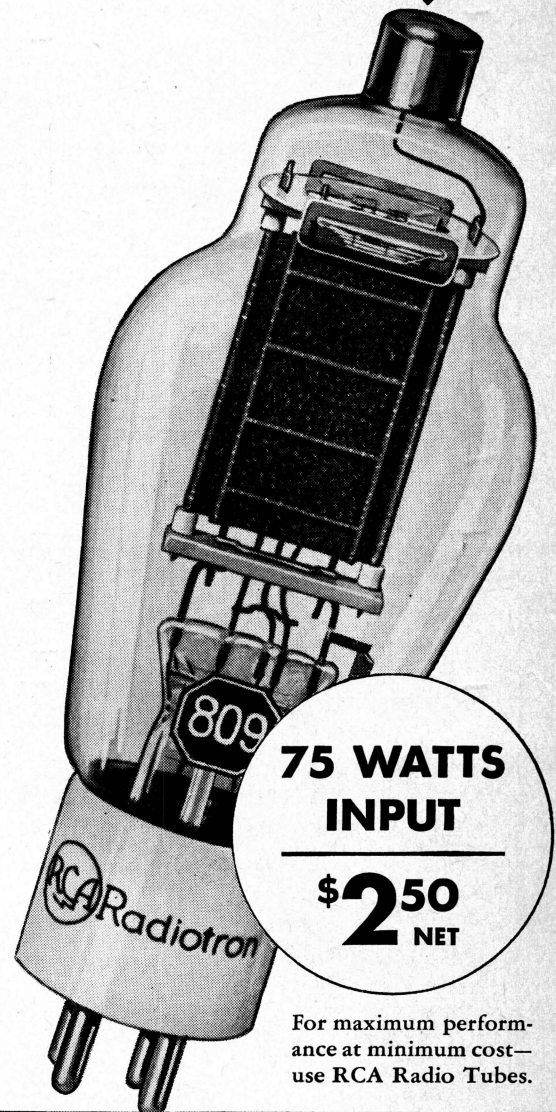
Look at the Price

Only \$2.50 Net!

And then you will be satisfied only when you own a new RCA-809. Your distributor has them in stock. See him or write us for full technical information.



RCA presents the "Magic Key" every Sunday, 2 to 3 p. m., E. S. T., on NBC Blue Network



**75 WATTS
INPUT**

**\$2.50
NET**

For maximum performance at minimum cost—use RCA Radio Tubes.

for Amateur Radio

AMATEUR RADIO SECTION

RCA Manufacturing Co., Inc., Camden, N. J. • A Service of the Radio Corporation of America

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

INTERNATIONAL PREFIXES

AC4	TIBET	I7	ETHIOPIA	VO3	TANGANYIKA
AR	SYRIA	J	JAPAN	VO4	KENYA
CE	CHILE	K4	PORTO RICO, VIRGIN ISLANDS	VO5	UGANDA
CM	CUBA	K5	CANAL ZONE	VO6	BRITISH SOMALILAND
CN	MOROCCO	K6	GUAM, HAWAII, MIDWAY	VO8	MAURITIUS
CO	CUBA (fones)		ISLAND, SAMOA (U. S.),	VO9	SEYCHELLES
CP	BOLIVIA		WAKE ISLAND	VR1	GILBERT & ELLICE ISLANDS
CR4	CAPE VERDE	K7	ALASKA	VR2	FIJI ISLANDS
CR5	PORTUGUESE GUINEA	KA	PHILIPPINE ISLANDS	VR3	FANNING ISLAND
CR6	ANGOLA	LA	NORWAY	VR4	BR. SOLOMON ISLANDS
CR7	MOZAMBIQUE	LU	ARGENTINA	VR5	TONGA ISLANDS
CR8	PORTUGUESE INDIA	LX	LUXEMBOURG	VR6	PITCAIRN ISLAND
CR9	MACAO	LY	LITHUANIA	VS1, VS2, VS3	MALAYA
CR10	TIMOR	LZ	BULGARIA	VS4	BORNEO
CT1	PORTUGAL	MX	MANCHUKUO	VS5	SARAWAK
CT2	AZORES	N	U. S. NAVAL COMMUNICATION	VS6	HONG KONG
CT3	MADEIRA		RESERVE STATIONS	VS7	CEYLON
CX	URUGUAY	NY	CANAL ZONE	VS8	BAHRAIN ISLAND
D	GERMANY	OA	PERU	VS9	MALDIVE ISLANDS
EA	SPAIN	OE	AUSTRIA	VU	INDIA
EA8	CANARY ISLANDS	OH	FINLAND	W	UNITED STATES
EI	IRELAND	OK	CZECHOSLOVAKIA	XE	MEXICO
EL	LIBERIA	OM	GUAM	XT, XU	CHINA
EP, EQ	IRAN (ex-Persia)	ON	BELGIUM	XZ	BURMA
ES	ESTONIA	OQ5	BELGIAN CONGO	YA	AFGHANISTAN
F3	FRANCE	OX	GREENLAND	YI	IRAQ
F8	FRANCE	OY	FAROE ISLANDS	YJ (**FU8)	NEW HEBRIDES
FA	ALGERIA	OZ	DENMARK	YL	LATVIA
FB8	MADAGASCAR	PA	NETHERLANDS	YM	DANZIG
FC8*	CLIPPERTON IS.	PI	NETHERLANDS (schools)	YN	NICARAGUA
FD8	TOGOLAND (French)	PJ	CURACAO	YR	ROUMANIA
FE8	CAMEROONS (French)	PK	NETH. INDIES	YS	SALVADOR
FF8	FRENCH WEST AFRICA	PX	ANDORRA	YT, YU	JUGOSLAVIA
FG8	GUADELOUPE	PY	BRAZIL	YV	VENEZUELA
FI8	FRENCH INDO-CHINA	PZ	SURINAM	ZA	ALBANIA
FK8	NEW CALEDONIA	SM	SWEDEN	ZB1	MALTA
FL8	SOMALI COAST	SP	POLAND	ZB2	GIBRALTAR
FM8	MARTINIQUE	ST	SUDAN	ZC1	TRANSJORDANIA
FN	FRENCH INDIA	SU	EGYPT	ZC2	COCOS ISLANDS
FO8	FRENCH OCEANIA, TAHITI	SV	GREECE	ZC3	CHRISTMAS ISLAND
FP8	ST. PIERRE & MIQUELON	TA	TURKEY	ZC4	CYPRUS
FQ8	FR. EQUATORIAL AFRICA	TF	ICELAND	ZC6	PALESTINE
FR8	REUNION	TG	GUATEMALA	ZD1	SIERRA LEONE
FT4	TUNIS	TI	COSTA RICA	ZD2	NIGERIA, CAMEROONS (British)
FU8	NEW HEBRIDES	U, UE, UK, UX	U.S.S.R.	ZD3	GAMBIA
FY8	FRENCH GUIANA	VE	CANADA	ZD4	GOLD COAST, TOGOLAND (British)
G	GREAT BRITAIN	VK	AUSTRALIA	ZD6	NYASALAND
GI (see G)	NORTHERN IRELAND	VO	NEWFOUNDLAND	ZD7	SAINT HELENA
GM (see G)	SCOTLAND	VP1	BRITISH HONDURAS	ZD8	ASCENSION
GW (see G)	WALES	VP2	DOMINICA, GRENADA, ST. LUCIA, ANTIGUA, ST. KITT'S-NEVIS	ZD9	TRISTAN DA CUNHA
HA	HUNGARY	VP3	BRITISH GUIANA	ZE1	SOUTHERN RHODESIA
HB	SWITZERLAND	VP4	TRINIDAD & TOBAGO	ZK1	COOK ISLANDS
HC	ECUADOR	VP5	CAYMAN ISLANDS, JAMAICA, TURKS & CAICOS ISLANDS	ZK2	NIUE
HH	HAITI	VP6	BARBADOS	ZL	NEW ZEALAND
HI	DOMINICAN REPUBLIC	VP7	BAHAMAS	ZM	WESTERN SAMOA
HJ, HK	COLOMBIAN REPUBLIC	VP8	FALKLAND ISLANDS	ZP	PARAGUAY
HP	PANAMA		SOUTH GEORGIA	ZS	SOUTH AFRICA
HR	HONDURAS	VP9	BERMUDA		
HS	SIAM	VQ2	NORTHERN RHODESIA		
HZ	HEDJAZ				
I	ITALY				

*Unofficial

**Official, by French govt.

R-S-T Reporting System

(Originated by W2BSR)

Readability

- 1—UNREADABLE.
- 2—BARELY READABLE—OCCASIONAL WORDS DISTINGUISHABLE.
- 3—READABLE WITH CONSIDERABLE DIFFICULTY.
- 4—READABLE WITH PRACTICALLY NO DIFFICULTY.
- 5—PERFECTLY READABLE.

Signal Strength

- 1—FAINT—SIGNALS BARELY PERCEPTIBLE.
- 2—VERY WEAK SIGNALS.
- 3—WEAK SIGNALS.
- 4—FAIR SIGNALS.
- 5—FAIRLY GOOD SIGNALS.

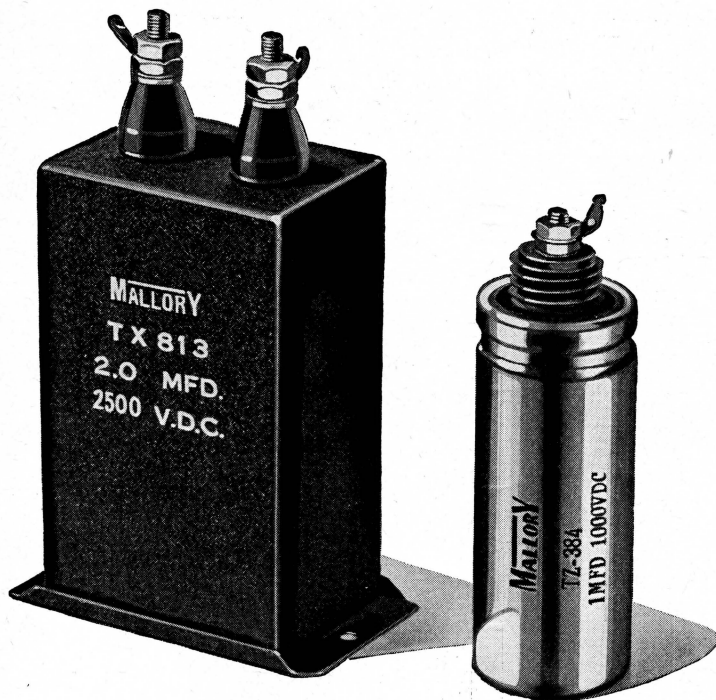
- 6—GOOD SIGNALS.
- 7—MODERATELY STRONG SIGNALS.
- 8—STRONG SIGNALS.
- 9—EXTREMELY STRONG SIGNALS.

Tone

- 1—EXTREMELY ROUGH, HISSING NOTE.
- 2—VERY ROUGH A.C. NOTE—NO TRACE OF MUSICALITY.
- 3—ROUGH, LOW-PITCHED A.C. NOTE—SLIGHTLY MUSICAL.
- 4—RATHER ROUGH A.C. NOTE—MODERATELY MUSICAL.
- 5—MUSICALLY MODULATED NOTE.
- 6—MODULATED NOTE—SLIGHT TRACE OF WHISTLE.
- 7—NEAR D.C. NOTE—SMOOTH RIPPLE.
- 8—GOOD D.C. NOTE—JUST TRACE OF RIPPLE.
- 9—PUREST D.C. NOTE.

IF THE NOTE APPEARS TO BE CRYSTAL CONTROLLED, SIMPLY ADD AN X AFTER THE APPROPRIATE NUMBER.

Announcing... *New*



P.R. MALLORY & CO., Inc. **MALLORY** **Transmitting** **Condensers**

NEW...in Design...
Construction...
Impregnation...
and appearance...

BUT...tested and proven in performance

Both types—TX and TZ—are ideal for radio transmitter and high-power amplifier applications. Both are impregnated with Mallory Compound, which is not a wax—is unlike any standard or special impregnating oil now offered and will not leak out of the container. It positively does not contain chlorine either in a free or combined form.

The natural, high dielectric constant of Mallory Compound is combined with unusual heat resistance. Condensers impregnated with Mallory Compound have unusually good power factor and extremely stable DC resistance.

Mallory TX Condensers are housed in rectangular metal cans, with durable black crackle enamel finish, and are provided with two ceramic stand-off terminal insulators.

Mallory TZ Condensers are dual purpose units, for transmitter filters or heavy duty power amplifier circuits. These are supplied in round aluminum cans with threaded necks for inverted mounting. They can also be mounted upright with standard ring brackets.

See your distributor about these new transmitting condensers!

Use
MALLORY
REPLACEMENT
CONDENSERS...VIBRATORS

P. R. MALLORY & CO., Inc.
INDIANAPOLIS INDIANA
Cable Address—PELMALLO

Use
YAXLEY
REPLACEMENT
VOLUME CONTROLS

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

PREFIXES—BY COUNTRIES

NA—North America —
SA—South America —
E—Europe —

A—Asia —
AF—Africa —
O—Oceania —

AFGHANISTAN (A).....YA	FINLAND (E).....OH	NORWAY (E).....LA
ALASKA (NA).....K7	FRANCE (E).....F3, F8	NYASALAND (AF).....ZD6
ALBANIA (E).....ZA	FR. EQUATORIAL AFRICA.....FQ8	OCEAN ISLAND (see Gilbert).....
ALGERIA (AF).....FA	FRENCH GUIANA (SA).....FY8	PALESTINE (A).....ZC6
ANDORRA (E).....PX	FRENCH INDIA (A).....FN	PANAMA (NA).....HP
ANGOLA (AF).....CR6	FRENCH INDO-CHINA (A).....F18	PARAGUAY (SA).....ZP
ANTIGUA (NA).....VP2	FRENCH WEST AFRICA.....FF8	PERSIA (see Iran).....
ARGENTINA (SA).....LU	GAMBIA (AF).....ZD3	PERU (SA).....OA
ASCENSION (AF).....ZD8	GERMANY (E).....D	PHILIPPINES (O).....KA
AUSTRALIA (O).....VK	GIBALTAR (E).....ZB2	PITCAIRN ISLAND (O).....VR6
AUSTRIA (E).....OE	GILBERT & ELLICE IDS. (O).....VR1	POLAND (E).....SP
AZORES (AF).....CT2	GREAT BRITAIN (E).....G	PORTO RICO (NA).....K4
BAHAMAS (NA).....VP7	GREECE (E).....SV	PORTUGAL (E).....CT1
BAHRAIN ISLAND (A).....VS8	GREENLAND (NA).....OX	REUNION (AF).....FR8
BARBADOS (NA).....VP6	GRENADA (NA).....VP2	ROUMANIA (E).....YR
BELGIUM CONGO (AF).....OQ5	GUADELOUPE (NA).....FG8	SAINT HELENA (A).....ZD7
BELGIUM (E).....ON	GUAM (O).....K6, OM	ST. KITTS-NEVIS (NA).....VP2
BERMUDA (NA).....VP9	GUATEMALA (NA).....TG	ST. LUCIA.....VP2
BOLIVIA (SA).....CP	HAITI (NA).....HH	ST. PIERRE & MIQUELON (NA).....FP8
BORNEO (O).....VS4	HAWAII (O).....K6	SALVADOR (NA).....YS
BRAZIL (SA).....PY	HEDJAZ (A).....HZ	SAMOA (O) (U.S.).....K6
BRITISH GUIANA (SA).....VP3	HONDURAS (NA).....HR	SARAWAK (O).....VS5
BRITISH HONDURAS (NA).....VP1	HONG KONG (A).....VS6	SCOTLAND (E).....GM
BR. SOLOMON ISLANDS (O).....VR4	HUNGARY (E).....HA	SEYCHELLES (AF).....VQ9
BRITISH SOMALILAND (AF).....VQ6	ICELAND (E).....TF	SIAM (A).....HS
BULGARIA (E).....LZ	INDIA (A).....VU	SIBERIA (see U.S.S.R.).....
BURMA (A).....XZ	IRAN (ex-Persia) (A).....EP, EQ	SIERRA LEONE (AF).....ZD1
CAMEROONS (British) (AF).....ZD2	IRAQ (A).....Y1	SOMALI COAST.....FL8
CAMEROONS (French) (AF).....FE8	IRELAND (E).....EI	SOUTH AFRICA.....ZS
CANADA (NA).....VE	ITALY (E).....I	SOUTH GEORGIA (SA).....VP8
CANAL ZONE (NA).....K5, NY	JAMAICA (NA).....VP5	SOUTHERN RHODESIA (AF).....ZE1
CANARY ISLANDS (AF).....EA8	JAPAN (A).....J	SPAIN (E).....EA
CAPE VERDE (AF).....CR4	JUGOSLAVIA (E).....YT, YU	STRAITS SETT. (see Malaya).....
CAYMAN ISLANDS (NA).....VP5	KENYA (AF).....VQ4	SUDAN (AF).....ST
CEYLON (A).....VS7	LATVIA (E).....YL	SURINAM (SA).....PZ
CHILE (SA).....CE	LIBERIA (AF).....EL	SWEDEN (E).....SM
CHINA (A).....XT, XU	LITHUANIA (E).....LY	SWITZERLAND (E).....HB
CHRISTMAS ISLAND (O).....ZC3	LUXEMBOURG (E).....LX	SYRIA (A).....AR
CLIPPERTON IS. (NA).....*FC8	MACAO (A).....CR9	TAHITI (O).....F3 (**F08)
COCOS ISLANDS (O).....ZC2	MADAGASCAR (AF).....FB8	TANGANYIKA (AF).....VQ3
COLOMBIAN REPUBLIC (SA).....HJ, HK	MADEIRA (AF).....CT3	TIBET (A).....AC4
COOK ISLANDS (O).....ZK1	MALAYA (A).....VS1, VS2, VS3	TOGOLAND (British) (AF).....ZD4
COSTA RICA (NA).....TI	MALDIVES ISLANDS (A).....VS9	TOGOLAND (French) (AF).....FD8
CUBA (NA).....CM, CO	MALTA (E).....ZB1	TONGA ISLANDS (O).....VR5
CURACAO (SA).....PJ	MANCHUKUO (A).....MX	TRANSJORDANIA (A).....ZC1
CYPRUS (E).....ZC4	MARTINIQUE (NA).....FM8	TRINIDAD & TOBAGO (SA).....VP4
CZECHOSLOVAKIA (E).....OK	MAURITIUS (AF).....VQ8	TRISTAN DA CUNHA (AF).....ZD9
DANZIG (E).....YM	MEXICO (NA).....XE	TUNIS (AF).....FT4
DENMARK (E).....OZ	MIDWAY ISLAND (O).....K6	TURKEY (E&A).....TA
DOMINICA (NA).....VP2	MOROCCO (AF).....CN	UGANDA (AF).....VQ5
DOMINICAN REPUBLIC (NA).....HI	MOZAMBIQUE (AF).....CR7	UNITED STATES (NA).....W
DUTCH E. IND. (see Neth. Ind.).....	NETHERLANDS (E).....PA, P1	U. S. NAVAL COMMUNICATION
ECUADOR (SA).....HC	NETH. INDIES (O).....PK	RESERVE STATIONS (NA).....N
EGYPT (AF).....SU	NEW CALEDONIA (O).....FK8	URUGUAY (SA).....CX
ELLICE ISLANDS (see Gilbert).....	NEWFOUNDLAND (NA).....VO	U.S.S.R. (E, A).....U, UE, UK, UX
ESTONIA (E).....ES	NEW HEBRIDES (O).....YJ (**FU8)	VENEZUELA (SA).....YV
ETHIOPIA (AF).....I7	NEW ZEALAND (O).....ZL	VIRGIN ISLANDS (NA).....K4
FALKLAND ISLANDS (SA).....VP8	NICARAGUA (NA).....YN	WALES (E).....GW
FANNING ISLAND (O).....VR3	NIGERIA (AF).....ZD2	WESTERN SAMOA (O) (British).....ZM
FAROE ISLANDS (E).....OY	NIUE (O).....ZK2	ZANZIBAR (AF).....VP1
FIJI ISLANDS (O).....VR2	NORTHERN IRELAND (E).....GI	
	NORTHERN RHODESIA (AF).....VQ2	

*Unofficial
**Official, by French govt.

U. S. Postal Rates on Cards and Letters

LETTERS 3c each ounce or fraction to United States, U. S. Possessions, Canada, Labrador and Newfoundland. 2c each ounce or fraction if for delivery in the town in U. S. where letter was mailed. AIRMAIL to U. S. and Canada: 6c each ounce or fraction.

LETTERS, 3c each ounce or fraction, CARDS 2c, to: Argentina, Balearic Islands, Bolivia, Brazil, Canary Islands, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras, Mexico, Morocco (Spanish), Nicaragua, Panama, Paraguay, Peru, Salvador, Spain and its Colonies, Uruguay, Venezuela.

Letters 3c each ounce or fraction to CANADA, LABRADOR, and NEWFOUNDLAND. Letters 5c each ounce or fraction to GREAT BRITAIN (Eng-

land, Scotland, Wales), NORTHERN IRELAND, and IRISH FREE STATE.

LETTERS 5c first ounce and 3c for each additional ounce or fraction to: All other countries not in the above lists.

Registration Fee—In addition to postage, 15 cents to all countries.

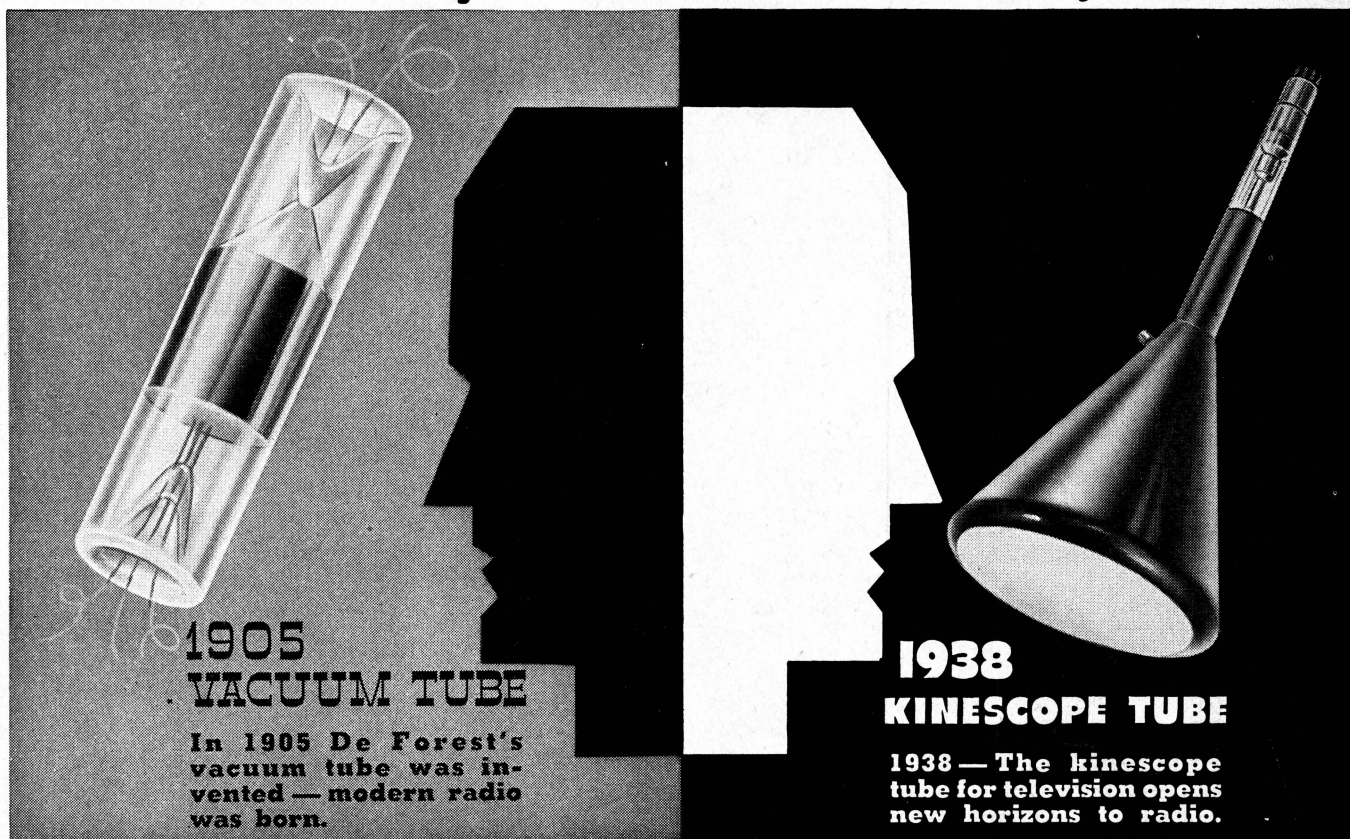
POST CARDS (Government and Private)

CARDS 1c each in United States and Possessions, and 2c to countries taking 3c letter rate.

Cards 2c each to CANADA, LABRADOR, and NEWFOUNDLAND.

Cards 3c each to all other foreign countries.

Times Change.... Radio Sweeps On



**1905
VACUUM TUBE**

In 1905 De Forest's vacuum tube was invented — modern radio was born.

**1938
KINESCOPE TUBE**

1938 — The kinescope tube for television opens new horizons to radio.

... But One Thing Remains Constant

REMEMBER 'WAY BACK WHEN: Audiotrons cost 12 bucks apiece ... We dreamed of owning a "sync" gap ... Neighbors kicked at flickering lights ... Monday nights were reserved for DX ... We didn't have to worry about QRM ... The longer our aerial, the better we got out ... Variometers were the last word in tuning ... A transcontinental message relay made history ...?

AND TODAY: Sky wires must be cut to a fraction of an inch ... A big headache is BC QRM complaints ... Constantly checking our freq to avoid pink tickets ... Patiently waiting for 5 and 10 to open up ... We chew the rag about infinite rejection ...

CHANGE is the very basis of Radio. But through the years of change, one thing has remained constant. Today, one Radio Supply House still leads the field. Today, as always, thousands of Hams the world over depend on **ALLIED** for Everything in Radio—for unbeatable service—for unbeatable quality—for unbeatable low prices. Each year increases the number of Amateurs who buy 100% **ALLIED**—each year further increases **ALLIED** leadership.

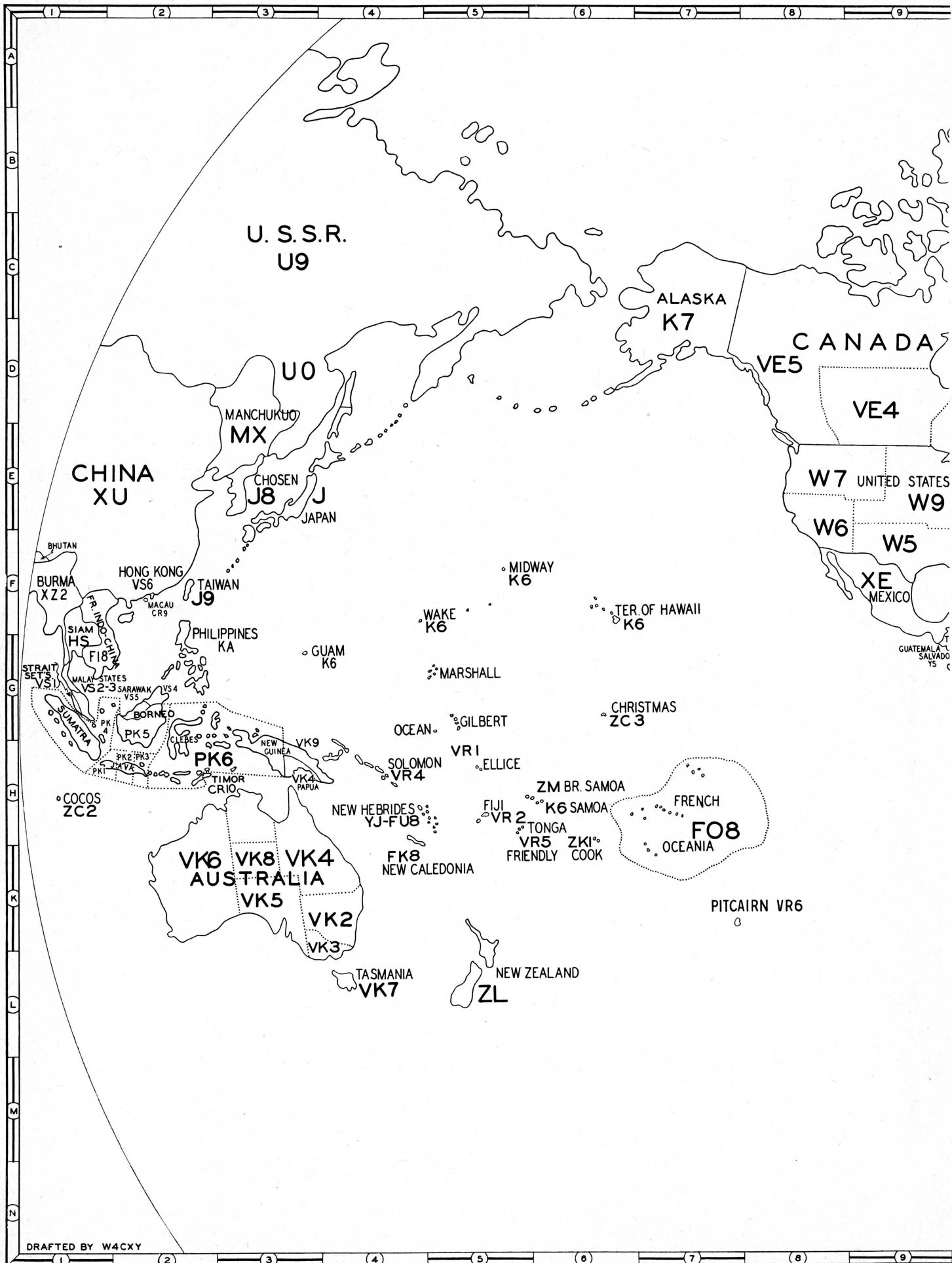
ALLIED RADIO
CORPORATION
CHICAGO

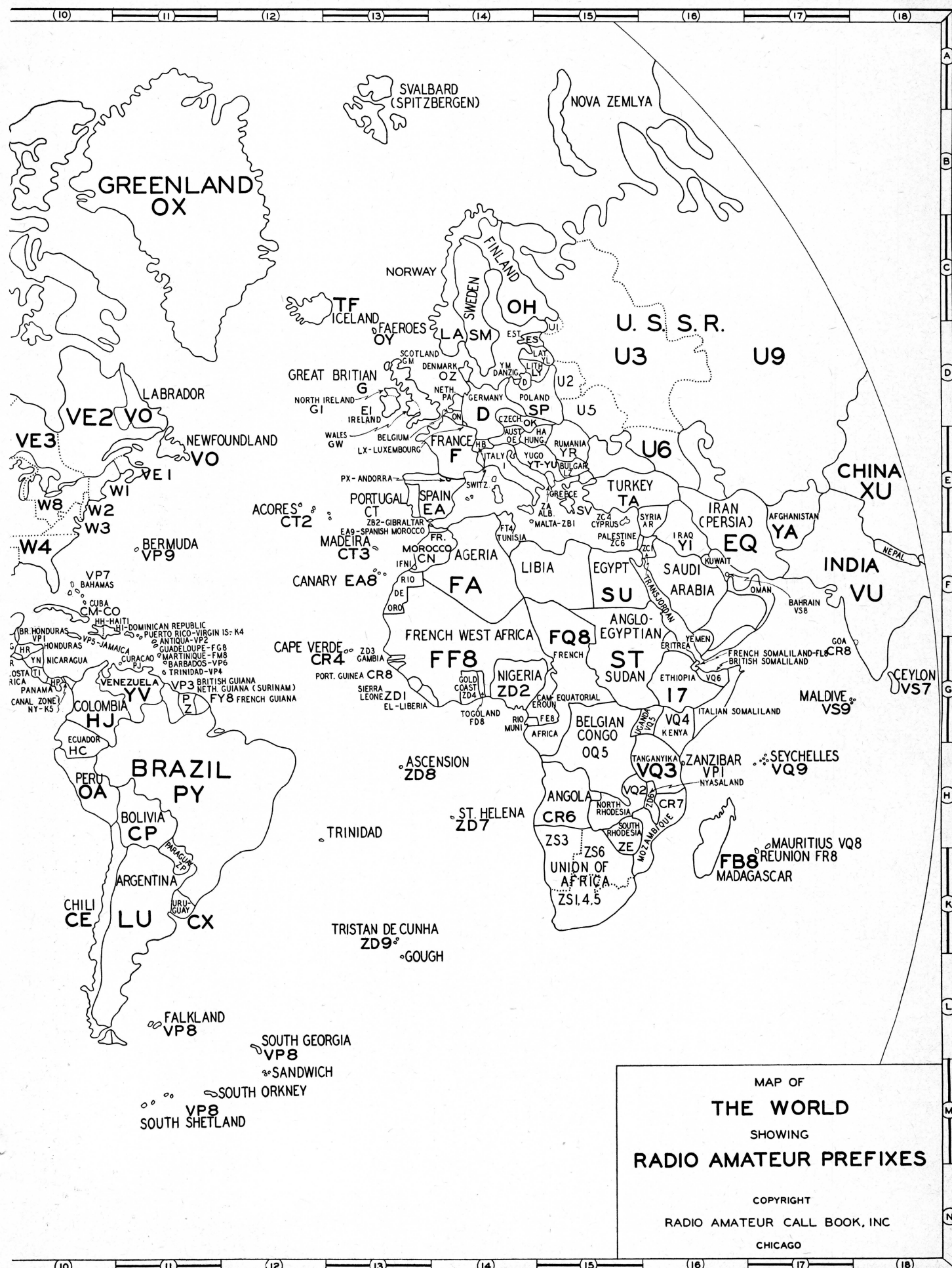


ALLIED'S new Spring Catalog is the **COMPLETE** Buying Guide for Everything in Radio at lowest prices. If you haven't received your free copy, write today to **ALLIED RADIO CORPORATION**, Dept. 20-C8, 833 W. Jackson Blvd., Chicago, Ill.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

AMATEUR PREFIXES



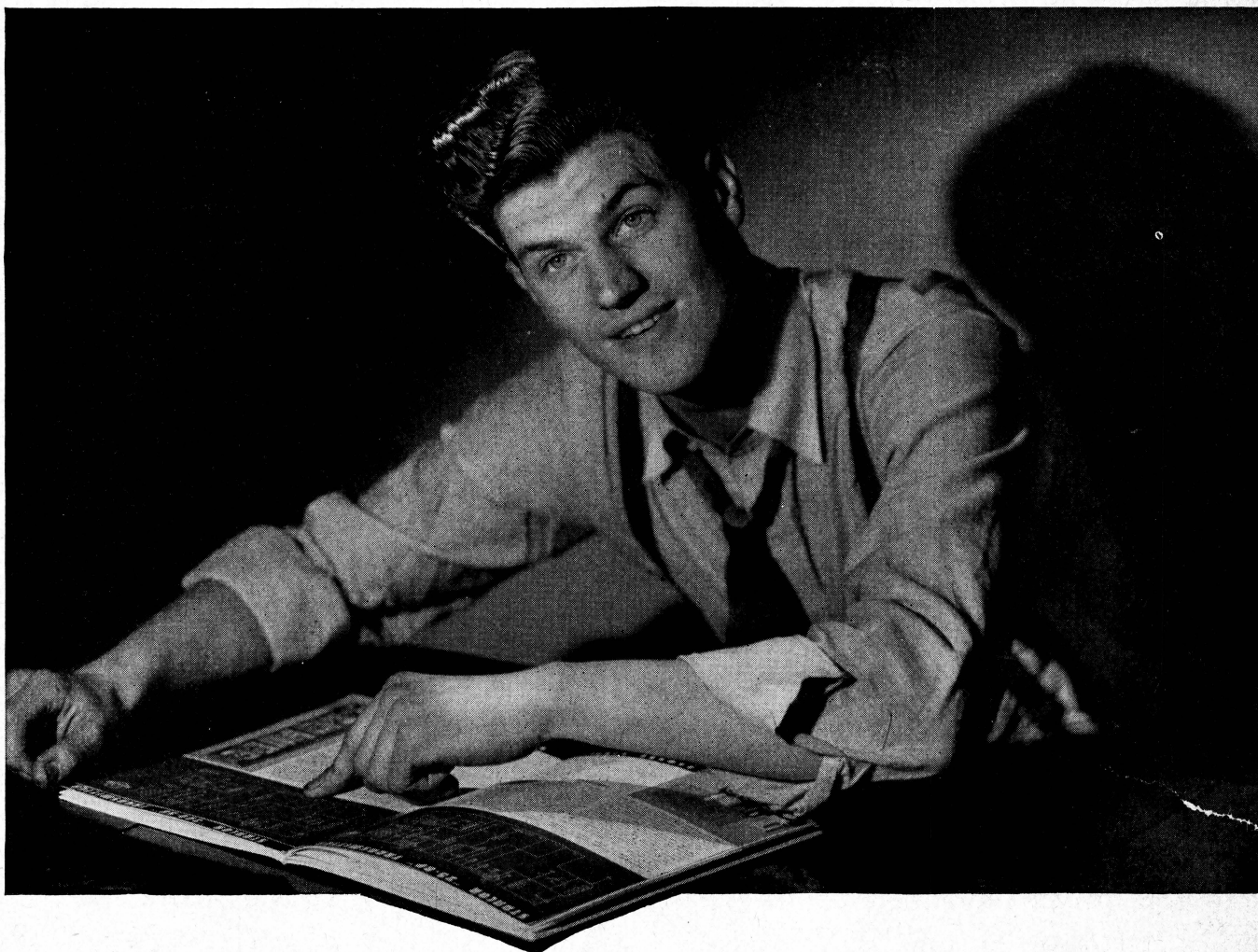


WORLD TIME CONVERSION CHART IN HOURS

Greenwich Meridian Time, London, Eng- land.	Central Europe, Ber- lin, Geneva, Stock- holm, Vienna.	Eastern Europe, Ath- ens, Cape Town, Cairo, Moscow.	Arabia, Armenia, Ethiopia, Madagas- car.	Mauritius, Persia, Reunion Island.	Central Russia, Bom- bay, India.	Calcutta, Novosi- birsk Russia, Tibet.	French Indo China. Siam, Sumatra.	Philippine Islands. Perth, Australia.	Central Australia. Tokyo, Japan.	Eastern Australia. Melbourne, Sydney.	New Caledonia. New Zealand.	International Date Line, Fiji Islands.	Nome, Alaska. Samoa Islands.	Hawaiian Islands. Midway Islands.	Eastern Alaska. Dawson, Juneau.	Pacific Standard Time, Los Angeles, Seattle.	Mountain Standard Time, Calgary, Denver, Phoenix.	Central Standard Time, Chicago, Costa Rica.	Eastern Standard Time, Montreal, New York, Peru.	Atlantic Standard Time, Argentina, Nova Scotia.	Greenland. Rio de Janeiro, Brazil.	Azores.	Iceland. Canary Islands.
0000	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM
0100	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night
0200	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM
0300	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM
0400	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM
0500	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM
0600	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM
0700	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM
0800	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM
0900	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM
1000	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM
1100	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM
1200	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM
1300	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon
1400	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM
1500	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM
1600	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM
1700	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM
1800	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM
1900	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM
2000	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM
2100	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM
2200	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM
2300	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM

With this chart you can convert standard time in any time zone to GMT or tell what time it is in other parts of the world. To correctly use this chart visualize each horizontal line as a complete circle. From your time zone tracing horizontally to the right (Counter Clockwise) it will be tomorrow when you pass midnight and yesterday when you pass the international date line. To the left (Clockwise) it will be yesterday when you pass midnight and tomorrow when you pass the international date line. There is no change in date when you pass both midnight and the international date line going in one direction. For instance at 8 PM in New York Eastern Standard Time it is 2 AM tomorrow in Berlin, Germany and 11 AM tomorrow in Sydney, Australia. Always trace in the shortest direction from your time zone to find what time it is in any other zone. Copyright 1938 Radio Amateur Call Book, Inc., Chicago, USA.

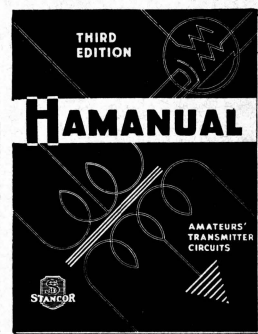
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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

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WE WISH TO REMIND ALL OPERATORS TO STRICTLY OBSERVE THE REGULATION REGARDING
SECURITY OF ALL PRESS TRANSMISSIONS, IN ACCORDANCE WITH THE U. S. RADIO LAWS

Confirmations will be appreciated on schedules you are copying above 3000 KC (below 100 metres). These are for the benefit of ships at sea, and the majority of these schedules are interrupted by a three-minute "silent period" at the 15th and 45th minute of each hour. At these times all ship operators are standing-by on 500 KC (600m) for SOS calls of ships in distress.

Note that time given is GMT (Greenwich Mean Time). U. S. Eastern Standard Time PLUS FIVE HOURS = GMT. BB = Major League Baseball Scores. CQ = General call, to all stations. Px = Press News. SX = Stock market quotations. Tx = Time signals. If followed by a number, means only that number quoted. From New York Exchange unless otherwise stated.

Many thanks to operators of KUP, WFD, WHD, WRH, and others, for their help.

GMT	CALL	KC	METRES	LOCATION	TYPE OF TRANSMISSION
0000	FZR4	11990	25.02	Saigon, Fr. Indo-China.	Px In English, Friday only. League of Nations "communiqué épidémiologique."
.....	LOL	8690	34.52	Darsena Norte, Argentina.	Px In Spanish. Also 285 kc (1053m).
.....	PPE	8720	34.4	Rio de Janeiro, Brazil.	Tx Until 0030.
.....	PPR	8310	36.1	Rio de Janeiro, Brazil.	Px In English & Portuguese.
.....	WFC	6785	44.22	New Orleans, La.	Px Until 0030, then Sx & markets, then more Px. Simultaneously with WFB on 90kc (3333m).
0030	FZR4	11990	25.02	Saigon, Fr. Indo-China.	Px In French.
0035	JRW	12920	23.22	Palao, Caroline Islands.	Wx In English.
0050	DIS	10150	29.557	Nauen, Germany	Px German & World, in German abrv. Daily except Sunday.
.....	DFH	7332	40.918	Nauen, Germany.	Simultaneously.
0057	PLO	11440	26.22	Malabar, Java, D. E. I.	Tx Until 0100. Also PLX on 19.23kc (15600m) except Sundays.
0100	SAG	8525	35.19	Goteborg, Sweden.	Px Swedish press, in Swedish to all Swedish ships.
.....	WRH	8360	35.89	Carlstadt, N. J.	Px BB of current date. SX10
0105	NSS	4525	66.298	Annapolis, Md.	Wx
.....	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 0120. Observations of 2300 GMT.
0130	NGP	8770	34.21	San Francisco, Calif.	Wx California coast. Also on 42.8kc (7009m) & 108kc (2778m).
0145	XU8ZW	12820	23.4	Shanghai, China.	Wx and storm signals.
0155	XDP	4800	62.5	Chapultepec, D. F., Mex.	Tx Until 0200.
.....	XDD	13043	23	Chapultepec, D. F., Mex.	Tx Simultaneously.
0200	LOL	8690	34.52	Darsena Norte, Argentina	Tx Also on 285kc (1053m).
0245	NIDF	12615	23.78	U.S.S. Augusta.	Wx Plain language.
0251	FRK2	8570	35	Phu-Lien, Fr. Indo-China.	Tx Until 0300. Simultaneously with FRK on 500kc (600m).
0255	NAA	9250	32.43	Arlington, Va.	Tx Until 0300. Simultaneously on 113kc (2653m), & 4390kc (68.34m).
.....	NPG	12885	23.28	San Francisco, Calif.	Tx Until 0300. Simultaneously on 42.8kc (7009), & 8770kc (34.21m).
.....	NPM	16180	18.54	Pearl Harbor, T. H.	Tx Until 0300.
0300	KUP	6440	46.58	San Francisco, Calif.	Px "Addressed to Paid Subscribers, U. S. Navy & Army Transport SVC," NOTICE: Non Passenger carrying vessels are permitted to copy.
.....	NAA	9250	32.43	Arlington, Va.	Wx Marine-Angot weather, USLHS, Hydro, Ice reports. Simultaneously on 64kc (4687.5m), 113kc (2653m), and 4390kc (68.34m).
.....	NPG	12885	23.28	San Francisco, Calif.	Wx Hydrographic. Pacific. Simultaneously with 42.8kc (7009m) & 108kc (2778m).
.....	NSS	4525	66.298	Annapolis, Md.	Wx Simultaneously with NAA.
.....	XDP	4800	62.5	Chapultepec, D. F., Mex.	Wx In Spanish.
.....	XDD	13043	23	Chapultepec, D. F., Mex.	Wx Simultaneously.
.....	ZSV	8220	36.5	Walvis Bay, S. Africa.	Px Confirmation requested.
.....	RKL	10723	27.98	Khabarovsk, U. S. S. R.	Px In English. Confirmation requested.
0330	VAS	8400	35.71	Louisburg, N. S., Canada.	Px Short paid press to Canadian Pacific. Also on 107kc (2804m).
0355	NPM	16180	18.54	Pearl Harbor, T. H.	Tx Until 0400.
0356	IRG	5450	55	Massua, Erythrea.	Tx Until 0400.
0400	KFS	8380	35.8	Palo Alto, Calif.	Wx Transmitting to all commercial vessels, weather bulletins & forecasts furnished by the U. S. weather bureau.
.....	KUP	6440	46.58	San Francisco, Calif.	Wx Repeat on NPG 0330 sked. Daily including holidays.
.....	NAA	4525	66.298	Arlington, Va.	Wx Coded weather broadcast to Europe.
0415	WSC	8430	35.59	Tuckerton, N. J.	Px R.C.A. subscription Px, BB and Sx. Simultaneously with WGG on 22.1kc (13575m).
.....	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 0430. Observation of 0300 GMT.
0418	WSL	5555	54	Sayville, L. I., N. Y.	Px Paid Px. Daily. Simultaneously with WMY on 32.6kc (9200m).
.....	WSL	11115	26.99	Sayville, L. I., N. Y.	Px
0425	NPO	9250	32.43	Cavite, P. I.	Tx Until 0430. Also 56kc (5357m).
.....	NPO	12630	23.75	Cavite, P. I.	Tx Simultaneously.
0430	NPO	9250	32.43	Cavite, P. I.	Wx Also on 56kc (5357m).
.....	NPO	12630	23.75	Cavite, P. I.	Wx Simultaneously.
.....	WFD	10460	28.68	New Orleans, La.	Wx Simultaneously with WFB on 90kc (3333m).
.....	WFC	6785	44.22	New Orleans, La.	Wx 6785kc in winter, 10460kc in summer.
.....	KPH	8440	35.55	Bolinas, Calif.	Wx Pacific & Lightship weather. Also on 126kc and 436kc.
.....	KPH	12735	23.56	Bolinas, Calif.	Wx Simultaneously.
0440	PLO	11440	26.22	Malabar, Java, D. E. I.	Px In Dutch. Simultaneously with PLA on 19.23kc (15600m) Confirmation requested.
0455	NAA	9425	31.83	Arlington, Va.	Tx Until 0500. Simultaneously on 113kc (2653m), and 8920kc (33.63m).
0500	NSS	4525	66.298	Annapolis, Md.	Wx Hydrographic. Ice reports (in season).
.....	VAI	8330	36.01	Vancouver, B. C.	Px Simultaneously on 118kc (2542m).

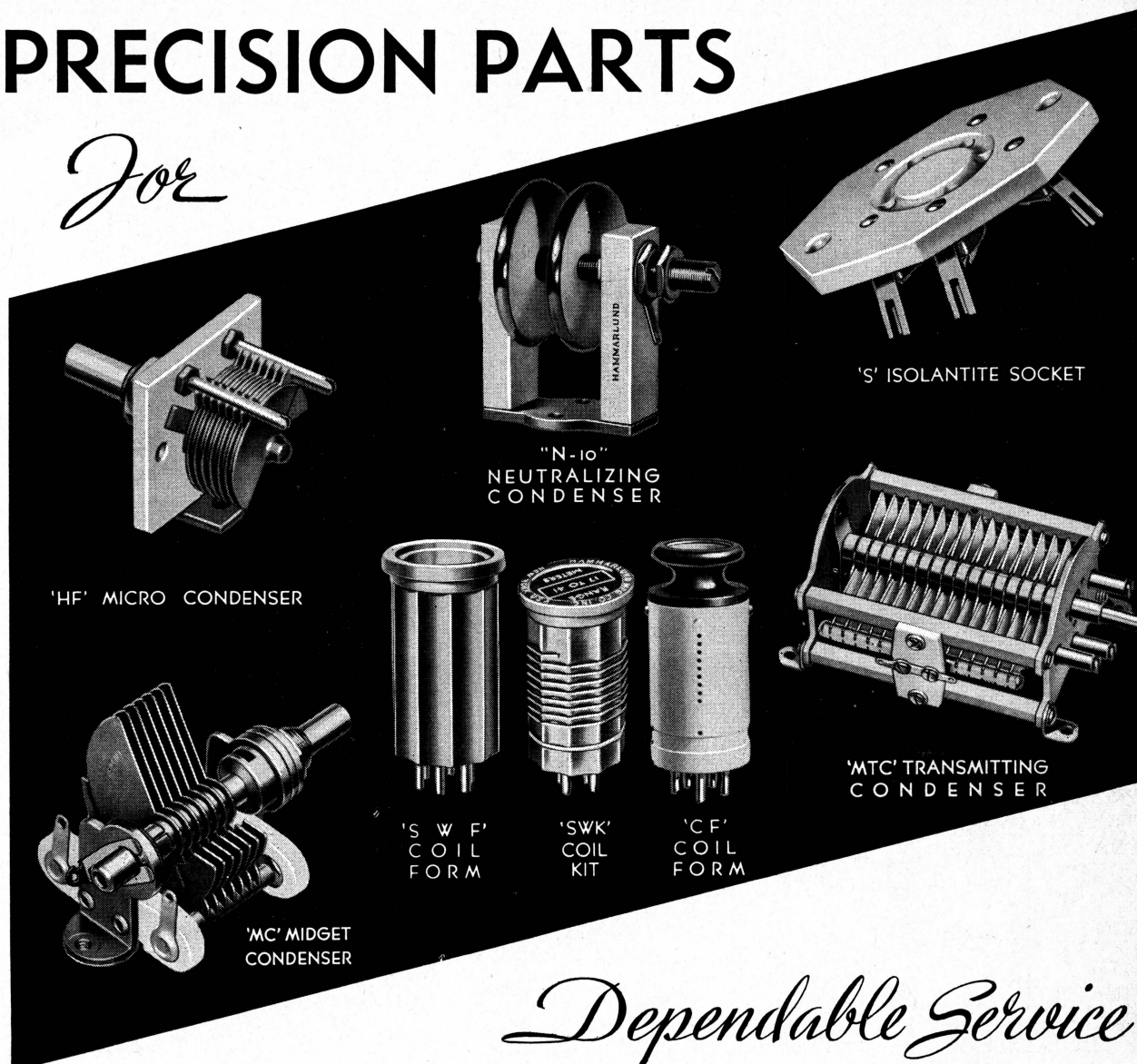
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*Patent Applied For

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GMT	CALL	KC	METRES	LOCATION	TYPE OF TRANSMISSION
0530	XPI	6520	46.10	Pratas Id., China.	Wx Asiatic coast weather, typhoons, etc.
.....	KUP	6440	46.58	San Francisco, Calif.	Px "Addressed to Paid Subscribers, U. S. Navy and Army Transport SVC." NOTICE: Non passenger carrying vessels are permitted to copy.
0555	NAA	9425	31.83	Arlington, Va.	Tx Until 0600. Simultaneously on 113kc (2653m).
0600	WHD	8360	35.89	New York City.	Px CQ—General. New York Times. (0500 during summer time period.)
.....	KFS	8380	35.8	Palo Alto, Calif.	Px Traffic list for KOK, KEK, KFS. Simultaneously with 97.5kc (3075m), 12550kc (23.9m).
.....	LSI	9800	30.61	Monte Grande, Argentina.	CQ until 0800, answers every ship calling on 8332.5kc (36m).
0630	XDB	7380	40.65	Chapultepec.	Px Daily including holidays.
0655	NAA	9425	31.83	Arlington, Va.	Tx Until 0700. Simultaneously on 113kc (2653m).
0700	NAA	9250	32.43	Arlington, Va.	Px Simultaneously on 113kc (2653m).
0740	XPN	6250	48	Kamen, China.	Wx
.....	XPZ	6250	48	East Saddle, China.	Wx
0755	NAA	9425	31.83	Arlington, Va.	Tx Until 0800. Simultaneously on 113kc (2653m).
.....	NSS	4015	74.72	Annapolis, Md.	Tx Until 0800.
.....	NSS	8030	37.34	Annapolis, Md.	Tx Simultaneously.
0756	FYB	10581	28.35	Paris-Pontoise, France.	Tx Until 0800.
0800	KUH	8345	35.95	Manila, P. I.	Px Sx50. United Press news, sports, etc.
.....	KUH	11110	27	Manila, P. I.	Px Simultaneously.
.....	NPG	8590	34.92	San Francisco, Calif.	Wx & Hydrographic. Also on 42.8kc (7009m) & 108kc (2778m).
.....	FZO	15544	19.30	Hanoi, Fr. Indo-China.	Wx Meteorological report.
.....	JNJ	13940	21.52	Nagoya, Japan.	Px CQ—In English until 0820.
0810	KPH	8440	35.55	Bolinas, Calif.	Px Paid. R.C.A./United Press Sx & Px. Also on 126kc.
0815	FGL	6976.7	43	Araouan, Fr. W. Africa.	Wx
.....	FGP	6976.7	43	Agades, Fr. W. Africa.	Wx
0820	FGQ	10344.8	29	Bilma, Fr. W. Africa.	Wx
.....	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 0830. Observations of 0700 GMT.
0845	FVA	9677	31	Alger, Algeria.	Px In French.
.....	FGH	5769.2	52	Atar, Fr. W. Africa.	Wx
0855	NAA	9425	31.83	Arlington, Va.	Tx Until 0900. Simultaneously on 113kc (2653m).
0900	KUP	6440	46.58	San Francisco, Calif.	Px, Sx "Addressed to Paid Subscribers, U. S. Navy and Army Transport SVC." NOTICE: Non passenger carrying vessels are permitted to copy.
.....	FGF	13043.4	23	Cotonou, Fr. W. Africa.	Wx
.....	LCI	5905	50.8	Jeloy, Norway.	Px CQ—In Norwegian.
.....	LCJ	9980	30.06	Jeloy, Norway	Px Simultaneously with LCI.
.....	ZSD	8342.6	35.96	Jacobs, Natal, S. Africa.	Wx Simultaneously on 142.9kc (2100m).
0920	FGC	8108.1	37	Conakry, Fr. W. Africa.	Wx
0945	FFZ1	10526	28.5	Koukaza, China.	Wx
0950	FGJ1	9375	32	Bamako, Fr. W. Africa.	Wx
1000	IAC	12795	23.45	Coltano, Italy.	Px In Italian.
.....	IAC	6650	45.11	Coltano, Italy.	Px Simultaneously.
1010	GIH	10650	28.169	Leaffield, Oxford, England.	Wx Meteorological report. Simultaneously with GBR on 16kc (18750m).
1030	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 1050. Observations of 0900 GMT.
1100	LCP	14550	20.62	Jeloy, Norway.	Px Repeated transmission of press sent the previous day from LCI and LCJ.
1118	DAN	12745	23.45	Norddeich, Germany.	Wx From March 21 to September 20, and on 11340kc (26.46m) from September 21 to March 20.
1130	FFZ1	10526	28.5	Koukaza, China.	Wx
.....	XPI	6520	46.10	Pratas Id., China.	Wx Asiatic coast weather, typhoons, etc.
1155	DFC	12985	23.10	Nauen, Germany.	Tx Until 1200. Simultaneously on DFY 1655kc (18127m).
.....	DGZ	14605	20.54	Nauen, Germany.	Tx Until 1200.
.....	NPO	9250	32.43	Cavite, P. I.	Tx Until 1200.
1145	LQC	17660	16.99	Monte Grande, Argentina.	Tx Until 1150.
1200	GIA	19640	15.275	Leaffield, England.	Px CQ—Foreign office press. Daily except Sundays. Simultaneously with GBR on 16kc (18750m).
.....	GIM	12975	23.13	Leaffield, England.	Px Same as above.
1255	NAA	9425	31.83	Arlington, Va.	Tx Until 1300. Simultaneously on 113kc (2653m).
.....	NPO	9050	33.15	Cavite, P. I.	Tx Followed by Wx Hydrographic. Simultaneously on 22.9kc (13100m).
1300	KTK	6400	46.88	Mussel Rock, Calif.	Px Sx50. United Press news, sports, etc.
.....	KTK	8680	34.56	Mussel Rock, Calif.	Px Simultaneously.
.....	FZO	15544	19.30	Hanoi, Fr. Indo-China.	Wx Asiatic coast.
.....	NAA	9250	32.43	Arlington, Va.	Wx Aviation & Commercial weather. Simultaneously on 64kc (4687.5m), 4390kc (68.34m), 12630kc (23.75m), and 16820kc (17.83m).
1330	WFD	10460	28.68	New Orleans, La.	Px Paid press to KUFC. Repeat on previous day's ball scores. Simultaneously with WFB on 90kc (3333m).
.....	NPG	8770	34.21	San Francisco, Calif.	Wx Aviation weather. Simultaneously on 42.8kc (7009m) & 108kc (2778m).
1350	NAA	4015	74.72	Arlington, Va.	Wx Aviation weather and upper air reports.
.....	NAA	8870	33.82	Arlington, Va., U.S.A.	Wx Simultaneously.
.....	NSS	13575	22.10	Annapolis, Md.	Wx Simultaneously.
1355	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 1400.
.....	XDP	4800	62.5	Chapultepec, D. F., Mex.	Tx Until 1400.
.....	XDD	13043	23	Chapultepec, D. F., Mex.	Tx Simultaneously.
1356	LOL	8690	34.52	Darsena Norte, Argentina.	Tx Until 1400. Also on 285kc (1053m).
1400	LOL	8690	34.52	Darsena Norte, Argentina.	Tx Also on 285kc (1053m).
.....	XGX	8620	34.8	Shanghai, China.	Px CQ—Robt. Dollar SS. Co.
.....	XDP	4800	62.5	Chapultepec, D. F., Mex.	Wx Daily including holidays.
.....	XDD	13043	23	Chapultepec, D. F., Mex.	Wx Gulf and Pacific weather.
1455	NAA	9250	32.43	Arlington, Va.	Tx Until 1500. Daily except Sundays. Simultaneously on 113kc (2653m), 64kc (4687.5m) & 12630kc (23.75m), 4390kc (68.34m), and 16820kc (17.83m).

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'HF' MICRO CONDENSER

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CONDENSER

'S' ISOLANTITE SOCKET

'MTC' TRANSMITTING
CONDENSER

'MC' MIDGET
CONDENSER

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COIL
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lend themselves readily to the construction of compact and highly efficient transmitters.

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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

GMT	CALL	KC	METRES	LOCATION	TYPE OF TRANSMISSION
1455	NPG	12885	23.28	San Francisco, Calif.	Tx Until 1500. Simultaneously on 42.8kc. (7009m), & 8770kc (34.21m).
1500	CLA	9677	31	Habana, Cuba.	Px CQ—Cuban press in Spanish and occasional English, for 15 minutes. Simultaneously with 333kc (900m).
.....	FZG3	10826	27.71	Saigon, Fr. Indo-China.	Px In French, daily.
.....	XFIA	6976.74	43	Acapulco, Gro., Mex.	Wx Daily including holidays.
.....	NAA	8870	33.82	Arlington, Va.	Wx Marine weather, Atlantic. Simultaneously on 64kc (4687.5m), 113(2653).
.....	NSS	13575	22.1	Annapolis, Md.	Wx Simultaneously with NAA.
1530	NPG	8770	34.21	San Francisco, Calif.	Wx Marine weather and hydrographic. Also on 42.8 (7009m) & 108kc (2778m).
.....	XFIL	6250	48	Mazatlan, Sin., Mex.	Wx Daily including holidays.
1545	XDV	6780	44.24	Chapultepec, D. F., Mex.	Px Daily including holidays.
1555	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 1600.
1600	NAA	13575	22.1	Arlington, Va.	Wx Coded weather broadcast to Europe.
.....	XFIU	5330	56.3	Veracruz, Ver., Mex.	Wx Daily including holidays.
.....	XDA	14525	20.65	Chapultepec, D. F., Mex.	Px Daily including holidays.
1630	WFD	10460	28.68	New Orleans, La.	Wx Caribbean & Gulf of Mexico, followed by coded Sx. Also WFB on 90kc (3333m).
1655	NAA	9425	31.83	Arlington, Va.	Tx Until 1700. Simultaneously on 113kc (2653m).
.....	NSS	12045	24.91	Annapolis, Md.	Tx Most effective frequency used, depending upon season.
.....	NSS	16060	18.68	Annapolis, Md.	
1700	KUH	5555	54	Manila, P. I.	Px Sx50. United Press news, sports, etc.
.....	KUH	8345	35.95	Manila, P. I.	Px Simultaneously.
.....	NPG	12885	23.28	San Francisco, Calif.	Wx Hydrographic. Also on 42.8kc (7009m) & 108kc (2778m).
.....	NSS	9050	33.15	Annapolis, Md.	Wx Hydrographic. Ice reports (in season). Also NAA on 113kc (2653 m).
.....	KPH	8440	35.55	Bolinas, Calif.	Wx Pacific & Lightship weather. Also on 126kc and 436kc.
.....	KPH	12735	23.56	Bolinas, Calif.	Wx Simultaneously.
1755	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 1800.
.....	XDP	4800	62.5	Chapultepec, D. F., Mex.	Tx Until 1800.
.....	XDD	13043	23	Chapultepec, D. F., Mex.	Tx Simultaneously.
1756	IRG	5450	55	Massua, Erythrea.	Tx Until 1800.
1800	LVA	10130	29.6	Guatemala City.	Tx
1855	NAA	9425	31.83	Arlington, Va.	Tx Until 1900. Simultaneously on 113kc (2653m).
1900	DLE	10150	29.557	Nauen, Germany.	Px English copyright from Germany, on East-West directional antenna. Daily except Sundays.
.....	FZS3	9620	31.19	Saigon, Fr. Indo-China.	Tx Until 1905.
1930	CUY	9419	31.85	Lisbon, Portugal.	Px In Portuguese. Each word twice. Automatic.
1955	W9XAM	4795.5	62.53	Elgin, Ill.	Tx Until 2000.
1956	FYB	10581	28.35	Paris-Pontoise, France.	Tx Until 2000.
2000	CLA	9677	31	Habana, Cuba.	Px CQ—Cuban press in Spanish, and occasional English, for 15 minutes. Simultaneously with 333kc (900m).
.....	GIC	8640	34.72	Leafield, Oxford, England.	Px CQ—Foreign office press. Daily. Simultaneously with GBR on 16kc (18750m).
.....	GIM	12975	23.13	Leafield, Oxford, England.	Px Same as above.
2030	DLE	10150	29.557	Nauen, Germany.	Px English copyright from Germany, on North-South Antenna.
.....	DLC	7332	40.918	Nauen, Germany.	Px Daily. Simultaneously.
2055	NAA	9425	31.83	Arlington, Va.	Tx Until 2100. Simultaneously on 113kc (2653m).
.....	GIC	8640	34.72	Leafield, Oxford, England.	Wx CQ—Meteorological report. Daily. Simultaneously with GBR on 16kc (18750m).
2100	WRH	8360	35.89	Carlstadt, N. J.	Px CQ—World wide.
.....	IAC	12795	23.45	Coltano, Italy.	Px In Italian.
.....	IAC	6650	45.11	Coltano, Italy.	Px Simultaneously.
.....	SAG	8525	35.19	Goteborg, Sweden.	Px Swedish press, in Swedish to Swedish ships.
2150	DLE	10150	29.557	Nauen, Germany.	Px German press, in German, North-South antenna.
.....	DLC	7332	40.918	Nauen, Germany.	Px Simultaneously.
2156	LOL	8690	34.52	Darsena Norte, Argentina.	Tx Until 0200. Also on 285kc (1053m).
2200	XFIA	6976.74	43	Acapulco, Gro., Mex.	Wx Daily including holidays.
.....	XFIU	5330	56.3	Veracruz, Ver., Mex.	Wx Daily including holidays.
2206	ISF	5450	55.05	Mogadiscio, It. Somaliland.	Tx At the following times: 2206, 2208, 2210.
2230	KTK	8680	34.56	Mussel Rock, Calif.	Px Sx50. United Press news, sports, etc.
.....	KTK	12495	24.01	Mussel Rock, Calif.	Px Simultaneously.
.....	KTK	16740	17.92	Mussel Rock, Calif.	Px Simultaneously.
.....	ZLW	5700	52.63	Wellington, New Zealand.	Px Daily except Sundays. Also on 375kc (800m)
.....	NAA	9250	32.43	Arlington, Va.	Wx Cosmic data. April thru November 4390kc (68.34m). November thru March 9425kc (31.83m). Simultaneously on 113kc (2653m).
.....	NSS	9050	33.15	Annapolis, Md.	Wx Simultaneously with NAA.
2248	LSD	8830	33.98	Monte Grande, Argentina.	Px "Addressed to Paid Subscribers" until 2315, then traffic for the same until 2345.
2255	NAA	9425	31.83	Arlington, Va.	Tx Until 2300. Simultaneously on 113kc (2653m).
2300	XPN	6250	48	Kamen, China.	Wx
.....	XPZ	6250	48	East Saddle, China.	Wx
.....	LCI	5905	50.8	Jeloy, Norway.	Px CQ—In Norwegian.
.....	LCJ	9980	30.06	Jeloy, Norway.	Px Simultaneously with LCI.
2320	DLE	10150	29.557	Nauen, Germany.	Px German, sent in Spanish. North-South antenna.
.....	DLC	7332	40.918	Nauen, Germany.	Px Simultaneously.
2330	GIC	8640	34.72	Leafield, Oxford, England.	Px CQ—Foreign office press. Daily except Saturdays. Simultaneously with GBR on 16kc (18750m).
.....	GIM	12975	23.13	Leafield, Oxford, England.	Px Same as above.
2345	LSD	8830	33.97	Monte Grande, Argentina.	Tx Until 2350.
2350	DLE	10150	29.557	Nauen, Germany.	Px German Press, in German, North-South antenna.
.....	DLC	7332	40.918	Nauen, Germany.	Px Simultaneously.
2355	NAA	9425	31.83	Arlington, Va.	Tx Until 2400. Simultaneously on 113kc (2653m).
.....	DFP	7917.5	37.89	Nauen, Germany.	Tx Until 2400. Simultaneously on DFY 1655kc (18127m).
.....	DGK	6680	44.91	Nauen, Germany.	Tx Until 2400.

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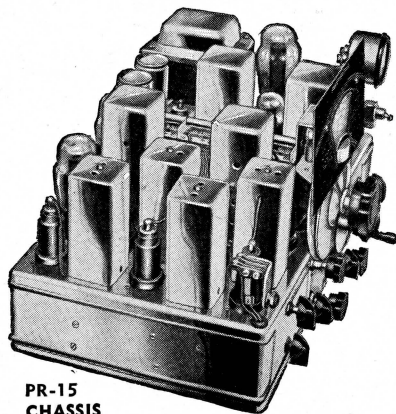
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